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Donne, M.S.; Pike, A.W.; Savry, R.;

Computing & Control Engineering Journal

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2. Combined research and curriculum development for power plant intellig

Lee, K.Y.; Edwards, R.M.; Hiyama, T.;

Energy Conversion, IEEE Transactions on

Volume 14, Issue 3, Sept. 1999 Page(s):817 - 823

Digital Object Identifier 10.1109/60.790958

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3. Lego modelling of the power station electrical auxiliaries for a real-time Г

Borghetti, A.; Nucci, C.A.; Pagani, P.; Spelta, S.; Vannelli, V.; Zanobetti, D.; Electrotechnical Conference, 1996, MELECON '96., 8th Mediterranean

Volume 3, 13-16 May 1996 Page(s):1634 - 1637 vol.3

Digital Object Identifier 10.1109/MELCON.1996.551266

Abstract | Full Text: PDF(392 KB) IEEE CNF

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4. Power plant simulation using a computer aided test station

Lew, P.; Rousso, P.; Petrescu, D.;

Telecommunications Energy Conference, 1988, INTELEC '88., 10th International Conference, 1988, INTELEC '88.,

30 Oct.-2 Nov. 1988 Page(s):265 - 271

Digital Object Identifier 10.1109/INTLEC.1988.22360

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5. Application of modern simulation tools to power plant modelling and an case studies

Pike, A.W.; Dixon, R.; Donne, M.S.; Liu, G.P.;

Tools for Simulation and Modelling (Ref. No. 2000/043), IEE Seminar on

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27 March 2000 Page(s):4/1 - 4/22

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6. Intelligent distributed control of power plants

Lee, K.Y.;

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Advances in Power System Control, Operation and Management, 1997. APSI International Conference on (Conf. Publ. No. 450)

Volume 1, 11-14 Nov. 1997 Page(s):66 - 71 vol.1

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7. Modeling, Simulation, control, and optimization of a geothermal power p. Casella, F.;

Energy Conversion, IEEE Transactions on

Volume 19, <u>Issue 1</u>, March 2004 Page(s):170 - 178

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Kitamura, M.; Furukawa, H.; Sakuma, M.; Washio, T.;

Robot and Human Communication, 1993. Proceedings., 2nd IEEE Internation

3-5 Nov. 1993 Page(s):253 - 258

Digital Object Identifier 10.1109/ROMAN.1993.367712

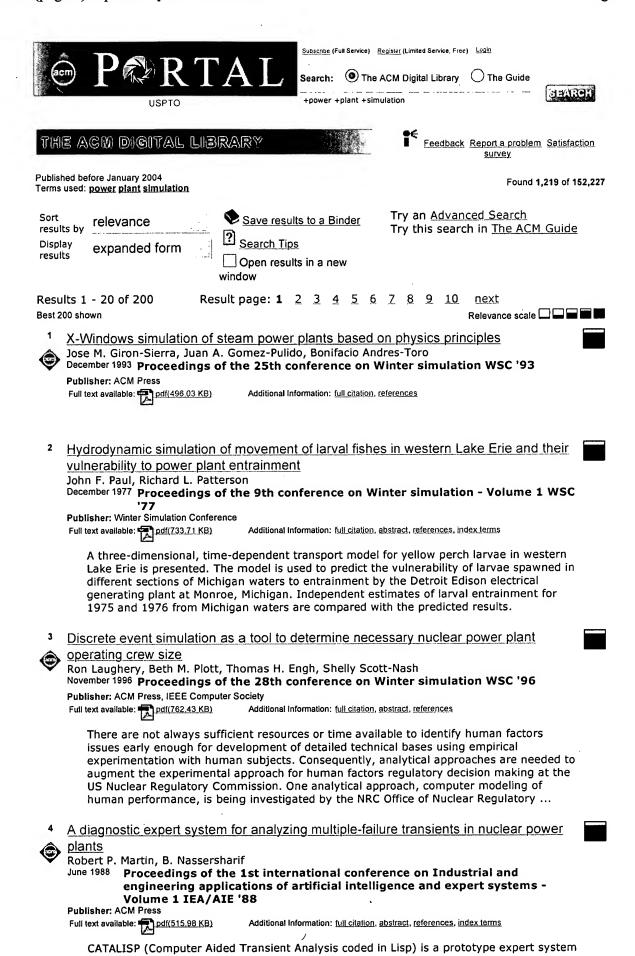
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which is the result of a project investigating and implementing event confidence-levels (used by reactor safety experts in reactor transient analysis) in the form of an expert system. Currently, CATALISP is designed to diagnose reactor transients by analyzing simulated sensor and plant thermal hydraulic information from a system simulation. CATALISP uses a knowledge base of existing emergency nuclear pla ...

Thermal plant outages in a large hydro-thermal power supply system a method in probabilistic simulation

Charles W. Eastwood

 $^{
m January~1980}$ Proceedings of the 13th annual symposium on Simulation ANSS '80

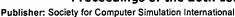
Publisher: IEEE Press

Full text available: pdf(378,20 KB)

Additional Information: full citation, abstract, references, index terms

The advent of large computers has made a significant impact upon decision theory with their ability to generate a large number of simulations within a relatively short period of time. Better estimates of a system's capabilities and parameters can be made with a larger number of simulations, but it should always be remembered that the accuracy of these estimates is dependent upon the accuracy with which the system is simulated. This paper discusses the methods of investigation and implementa ...

Simulating one dimension of safety and operational efficiency at a nuclear power plant Peter Hoefer, Christian Madu, Elias Dagher, Stephen V. Davis, John M. Donnelly December 1994 Proceedings of the 26th conference on Winter simulation WSC '94



Full text available: pdf(301.09 KB)

Additional Information: full citation, references, index terms

A computer simulation model for examining cogeneration alternatives

P. F. Schweizer, R. E. Sieck

December 1978 Proceedings of the 10th conference on Winter simulation - Volume 2 WSC '78

Publisher: IEEE Computer Society Press

Full text available: pdf(733.67 KB)

Additional Information: full citation, abstract, references, index terms

The purpose of this paper is to describe a computer simulation model that was used to analyze the technical and economic aspects of specific cogeneration applications. The model was coded in the APL language and runs on the Scientific Time Sharing System. The model was used to help provide a quantitative assessment of the potential market for industrial cogeneration equipment in the near-term future. This assessment was developed from costs and technical parameters derived from a ...

Total Energy Plant - simulation model

R. D. Doering, Y. A. Hosni

January 1980 Proceedings of the 12th conference on Winter simulation WSC '80

Publisher: IEEE Press

Full text available: pdf(360.45 KB)

Additional Information: full citation, abstract, references, index terms

A case of Total Energy Plant (TEP) has been modeled and the operational characteristics simulated. Applying the simulated data to the model will assist the TEP dispatcher in deciding on the operational schedule for the plant energy generating components, to attain an optimal cost of generating consumer demands for various types of energies.

Construction engineering and project management: CEPM 3: contributors to lead time in construction supply chains: case of pipe supports used in power plants

Roberto J. Arbulu, Iris D. Tommelein, Kenneth D. Walsh, James C. Hershauer December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02

Publisher: Winter Simulation Conference

Full text available: pdf(254.80 KB)

Additional Information: full citation, abstract, references, citings

This paper describes process models that characterize the design phase in the supply chain of pipe supports used in power plants. The models are used to study how production system design factors such as batching, uncertainty, and multitasking throughout this phase hamper supply chain performance. These factors all cause an increase in lead time. The models build on the STROBOSCOPE discrete-event simulation engine and illustrate several deterministic and probabilistic simulation scenarios inc ...

<u>Insights into carrier control</u>: a simulation of a power and free <u>conveyor</u> through an automotive paint shop



David W. Graehl

December 1992 Proceedings of the 24th conference on Winter simulation WSC '92

Publisher: ACM Press

Full text available: pdf(706.84 KB)

Additional Information: full citation, citings, index terms

Pressurized water reactor [PWR] system simulation and disturbance analysis for anomalous transients and degraded system conditions

V. K. Dhir, S. Guarro, J. C. Lin, M. Motamed, D. Okrent

December 1979 Proceedings of the 11th conference on Winter simulation - Volume 1 **WSC '79**

Publisher: IEEE Press

Full text available: pdf(816.53 KB)

Additional Information: full citation, abstract, references, index terms

In this paper potential applications of disturbance analysis to improve availability and safety of light water reactors (LWR's) are discussed. Needs for developing on-line computer aided guidance to the reactor operator during anomalous transients are pointed out. Currently available methods to simulate primary and secondary systems of a pressurized water reactor (PWR) during anomalous transients and other conditions severely degraded from normal operation are reviewed. Limitations of these \dots

Digital simulation for energy conservation in a large wind tunnel plant system Frederick L. Shope

January 1980 Proceedings of the 13th annual symposium on Simulation ANSS '80

Publisher: IEEE Press

Full text available: pdf(705.07 KB)

Additional Information: full citation, abstract, references, index terms

This paper documents a feasibility study of mathematically modeling the wind tunnel complex and associated plant in the von Kármán Gas Dynamics Facility at the Air Force's Arnold Engineering Development Center in Tennessee. The ultimate goal of the modeling effort is to effect energy conservation measures by modifying operational procedures and plant hardware. A general theory is proposed to model the aerodynamics and losses of each plant or tunnel component in terms of a set

A simulation model for assessment of large-scale power system reliability John H. Blackstone, Gary L. Hogg, Alton D. Patton

January 1980 Proceedings of the 12th conference on Winter simulation WSC '80

Publisher: IEEE Press

Full text available: pdf(942.15 KB)

Additional Information: full citation, abstract, references, index terms

This paper describes research on the applicability of Monte Carlo simulation to the study of large scale power system reliability. Reliability in this context refers to the ability of the system to meet demand for electricity over time. A generalized program capable of modeling any pool of generators was developed using a modified version of the GASP-IV simulation language. The logic of this program is described and the results of two applications of the program are presented.

Combined continuous/discrete simulation: applications, techniques and tools



François E. Cellier

December 1986 Proceedings of the 18th conference on Winter simulation WSC '86

Publisher: ACM Press

Full text available: pdf(880.01 KB)

Additional Information: full citation, abstract, references, citings, index terms

Beside from purely discrete event and/or continuous system simulations, there exists yet another simulation methodology that combines both classes of simulations into one. It is often possible to model one and the same system by use of completely different world views. Several papers have been written in which one particular application was modeled once by use of continuous system simulation, and once by use of discrete event simulation. Both techniques may eventually lead to the same answe ...

¹⁵ An efficient instantiation algorithm for simulating radiant energy transfer in plant models





Cyril Soler, François X. Sillion, Frédéric Blaise, Philippe Dereffye April 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(467,92 KB)

Additional Information: full citation, abstract, references, citings, index terms

We describe a complete lighting simulation system tailored for the difficult case of vegetation scenes. Our algorithm is based on hierarchical instantiation for radiosity and precise phase function modeling. It allows efficient calculations both in terms of computation and memory resources. We provide an in-depth description and study of the instantiation-based radiosity technique and we address the problems related to generating and managing phase functions of plant structures, as needed by the ...

Keywords: Plant growth simulation, calibrated physiological simulation, instantiation, landscape simulation, lighting simulation, radiosity

16 On the use of simulation in the design and installation of a power and free conveyor system



George L. Good, J. Thomas Bauner

January 1984 Proceedings of the 16th conference on Winter simulation WSC '84

Full text available: pdf(247.48 KB)

Additional Information: full citation, abstract, references, citings, index terms

If the introduction of the first power and free conveyor system in a plant is a risky adventure, then the introduction of the second power and free conveyor system in a plant where the first one failed is an extremely hazardous undertaking. The people proposing this power and free conveyor system decided to decrease their risks by initiating a simulation study while the system was early in the design phase. The primary purpose of the proposed power and free system is to minimize the manual ...

Simulation of plant operations: A critical evaluation

Richard J. Swersey

December 1969 Proceedings of the third conference on Applications of simulation

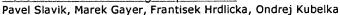
Publisher: Winter Simulation Conference

Full text available: pdf(305.02 KB)

Additional Information: full citation, abstract, references, index terms

The shortcomings of simulation as applied to plant operations are attributed to a lack of understanding of operating problems by the analyst and to a lack of understanding by operating personnel of the limitations of simulation. It is asserted that exploring the untapped potential of simulation as a research tool as well as an analytic tool should lead to more effective analysis of plant operations.

Modeling methodology a: Visualization for modeling and simulation: problems of visualization of technological processes



December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03

Publisher: Winter Simulation Conference

Full text available: pdf(722.09 KB)

Additional Information: full citation, abstract, references

This paper deals with problems of visualization of dynamic phenomena. An effort to develop new visualization schemes has been described. The main idea is to extend approaches used in the case of visualization of phenomena of static nature into an environment where dynamic phenomena are investigated and visualized. We introduced the "level of detail" approach in time scaling in the environment of dynamic processes where time plays a primary role. In the case of visualization of dynamic phenome \dots

The role of computer systems in the nuclear power debate



Kevin W. Bowyer

April 1980 ACM SIGCAS Computers and Society, Volume 10 Issue 3-4

Publisher: ACM Press

Full text available: pdf(489.92 KB)

Additional Information: full citation, abstract, references

One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer

applications must increase.

Simulation applied to final engine drop assembly

Edward J. Williams, Dean E. Orlando

December 1998 Proceedings of the 30th conference on Winter simulation WSC '98

Publisher: IEEE Computer Society Press

Full text available: pdf(63.59 KB)

Additional Information: full citation, references, index terms

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John Colter, Netscape Navigator

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A Willig - 2002 - opus.kobv.de

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5.2 Logical structure of PROFIBUS simulation model

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S Tzafestas, E Tzafestas - Journal of Intelligent and Robotic Systems, 2001 - Springer

... One reason is that usu- ally the time series methods employ ... PC) technique [79, 81]

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R LARSON, P SELLERS, R MEYER - Communications of the ACM., 1959 - Association for Computing Machinery

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Training simulator for a nuclear power plant

US Patent 4,977,529, 1990 - freepatentsonline.com

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MRTS traction power supply system simulation using Matlab/Simulink

KL Di Yu Lo, X Wang - Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE ..., 2002 ieeexplore.ieee.org

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